

State of California
The Resources Agency

Department of Water Resources

Water Conditions in California

Report 4 May 1, 1997



Pete Wilson Governor State of California Douglas P. Wheeler Secretary for Resources The Resources Agency David N. Kennedy
Director
Department of Water Resources

STATE OF CALIFORNIA

Pete Wilson, Governor

THE RESOURCES AGENCY

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Department of Water Resources

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COOPERATING AGENCIES

Public Agencies

Buena Vista Water Storage District Central California Irrigation District East Bay Municipal Utility District Friant Water Users Association Kaweah Delta Water Conservation District Kern Delta Water District Kings River Conservation District Lower Tule River Irrigation District Merced Irrigation District Modesto Irrigation District Nevada Irrigation District North Kern Water Storage District Northern California Power Agency Oakdale Irrigation District Omochumne-Hartnell Water District Oroville-Wyandotte Irrigation District Placer County Water Agency Sacramento Municipal Utility District South San Joaquin Irrigation District Tri-Dam Project Tulare Lake Basin Water Storage District Turlock Irrigation District Yuba County Water Agency **Private Organizations** J.G. Boswell Company Kaweah River Association Kings River Water Association St. Johns River Association

Tule River Association State Water Contractors

Municipalities

City of Bakersfield Water Department City of Los Angeles Department of Water and Power City and County of San Francisco Hetch Hetchy Water and Power State Agencies California Department of Forestry & Fire Protection California Department of Water Resources **Public Utilities** Pacific Gas and Electric Company Southern California Edison Company **Federal Agencies** U.S. Department of Agriculture Forest Service (14 National Forests) Pacific Southwest Forest and Range Experiment Station Natural Resource Conservation Service U.S. Department of Commerce National Weather Service U.S. Department of Interior Bureau of Reclamation Geological Survey, Water Resources National Park Service (3 National Parks) U.S. Department of Army Corps of Engineers Other Cooperative Programs Nevada Cooperative Snow Surveys Oregon Cooperative Snow Surveys

Summary of Water Conditions May 1, 1997

April precipitation was much below normal, with little in central and southern California. The three month period from February through April is the driest of record at many stations in strong contrast to the previous wettest two month period in December and January. Substantial high elevation snowpack and reservoir storage carryover of floodwaters will provide for the needs of most users, but those on low elevation watersheds without storage will probably see low flows early this year.

Forecasts of April through July runoff have been reduced again from one month ago, but still are near average at 90 percent overall. There is a strong disparity between high elevation basins and lower elevation ones. Water year runoff forecasts are 150 percent, most of which occurred during the winter.

Snowpack water content is about 55 percent of average statewide compared to 95 percent last year. The current pack is 45 percent of the April 1 average. Much of the pack has already melted in the northern Sierra Cascade range and Trinity.

Precipitation statewide during April was about half average ranging from mostly less than 10 percent in the south up to 100 percent in the north coast region. Seasonal precipitation is about 120 percent of average compared to 110 percent one year ago.

Runoff this year is about 175 percent of the seasonal average compared to 125 percent last year. Runoff during April was below average at 85 percent. Estimated April runoff of the 8 major rivers within the Sacramento and San Joaquin River hydrologic regions was 2.7 million acre-feet.

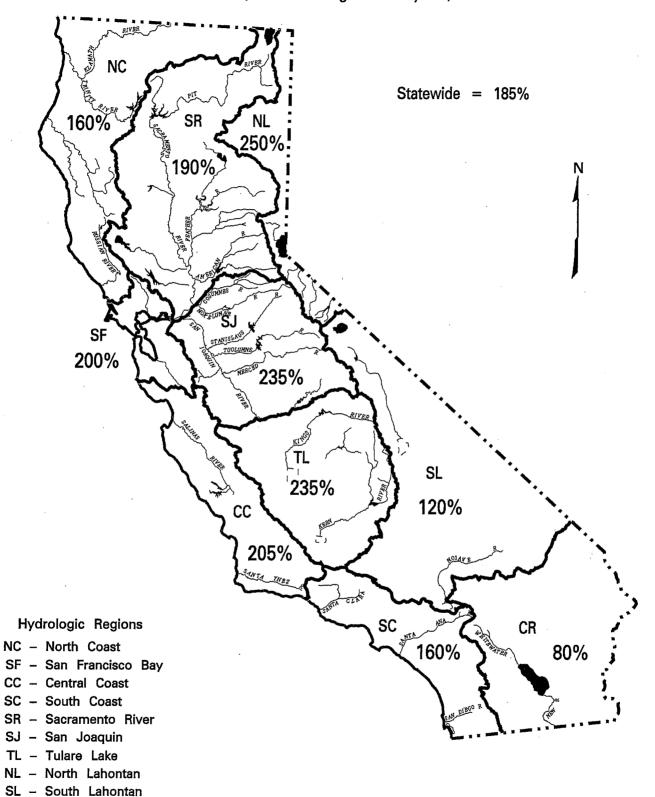
Reservoir storage is still good at around 110 percent of average, less than the 120 percent last year on May 1. Storage increased during April but at less than average accumulation because of the dry spring conditions.

SUMMARY OF WATER CONDITIONS IN PERCENT OF AVERAGE

HYDROLOGIC REGION	PRECIPITATION OCTOBER 1 TO DATE	MAY 1 SNOW WATER CONTENT	MAY 1 RESERVOIR STORAGE	RUNOFF OCTOBER 1 TO DATE	APR-JULY RUNOFF FORECAST	WATER YEAR RUNOFF FORECAST
NORTH COAST	125	25	105	155	55	115
SAN FRANCISCO BAY	125		. 115	155	 .	<u></u>
CENTRAL COAST	115		110	170		
SOUTH COAST	85		115	80		
SACRAMENTO RIVER	125	30	105	165	75	145
SAN JOAQUIN RIVER	135	70	120	245	105	175
TULARE LAKE	140	85	150	250	120	175
NORTH LAHONTAN	170	95	140	260	125	170
SOUTH LAHONTAN	65	100	90	120	125	125
COLORADO RIVER- DESERT	60					
STATEWIDE	120	55	110	175	90	150

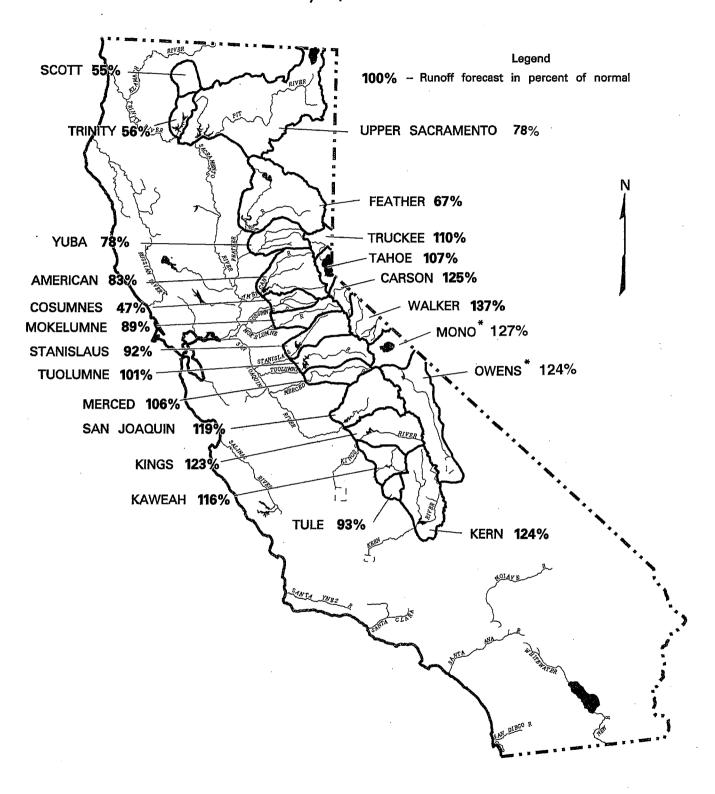
SEASONAL PRECIPITATION

IN PERCENT OF AVERAGE TO DATE
October 1, 1996 through January 31, 1997



CR - Colorado River-Desert

FORECAST OF APRIL – JULY UNIMPAIRED SNOWMELT RUNOFF May 1, 1997



^{*} FORECAST BY DEPARTMENT OF WATER AND POWER, CITY OF LOS ANGELES

MAY 1, 1997 FORECASTS APRIL-JULY UNIMPAIRED RUNOFF

HYDROLOGIC REGION and Watershed SACRAMENTO RIVER Upper Sacramento River Sacramento River at Shasta Lake (3) McCloud River at Shasta Lake Pit River at Shasta Lake Total Inflow to Shasta Lake Sacramento River above Bend Bridge, near Red Bluff Feather River Feather River at Lake Almanor near Prattville (3) North Fork at Pulga (3) Middle Fork near Clio (4) South Fork at Ponderosa Dam (3) Total Inflow to Oroville Reservoir Yuba River North Yuba below Goodyears Bar (3) Inflow to Jackson Mdws and Bowman Reservoirs (3) South Yuba at Langs Crossing (3) Yuba River at Smartville American River North Fork at North Fork Dam (3) Middle Fork near Auburn (3) Silver Creek Below Camino Diversion Dam (3) Total Inflow to Folsom Reservoir SAN JOAQUIN RIVER Cosumnes River at Michigan Bar Mokelumne River North Fork near West Point (5) Total Inflow to Pardee Reservoir Stanislaus River Middle Fork below Beardsley Dam (3)	297 392 1,056 1,801 2,451 333 1,028 86 110 1,831 286 112 233 1,029 262 522 173 1,261	702 850 1,796 3,189 4,674 675 2,416 518 267 4,676 647 236 481 2,424 716 1,406 386 3,074	Min of Record 39 185 480 726 943 120 243 4 13 392 51 25 57 200 43 100 37 229	Apr-Jul Forecasts 160 280 890 1,400 1,720 240 690 55 70 1,220 90 180 800 210 440 140 1,050	Pct	Prol	- 2, - 1, -	,720 ,530 ,530
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North Fork at North Fork Dam (3) Middle Fork near Auburn (3) Silver Creek Below Camino Diversion Dam (3) Total Inflow to Folsom Reservoir AN JOAQUIN RIVER Cosumnes River at Michigan Bar Mokelumne River North Fork near West Point (5) Total Inflow to Pardee Reservoir Stanislaus River Middle Fork below Beardsley Dam (3)	522 173 1,261 128	1,406 386 3,074 363	100 37 229	440 140 1,050	84% 81% 83%		<u> </u>	,220
Middle Fork near Auburn (3) Silver Creek Below Camino Diversion Dam (3) Total Inflow to Folsom Reservoir AN JOAQUIN RIVER Cosumnes River at Michigan Bar Mokelumne River North Fork near West Point (5) Total Inflow to Pardee Reservoir Stanislaus River Middle Fork below Beardsley Dam (3)	522 173 1,261 128	1,406 386 3,074 363	100 37 229	440 140 1,050	84% 81% 83%		<u> </u>	,220
Silver Creek Below Camino Diversion Dam (3) Total Inflow to Folsom Reservoir AN JOAQUIN RIVER Cosumnes River at Michigan Bar Mokelumne River North Fork near West Point (5) Total Inflow to Pardee Reservoir Stanislaus River Middle Fork below Beardsley Dam (3)	173 1,261 128	386 3,074 363	37 229	140 1,050	81% 83%		<u> </u>	,220
Total Inflow to Folsom Reservoir AN JOAQUIN RIVER Cosumnes River at Michigan Bar Mokelumne River North Fork near West Point (5) Total Inflow to Pardee Reservoir Stanislaus River Middle Fork below Beardsley Dam (3)	1,261	3,074	229	1,050	83%		<u> </u>	,220
AN JOAQUIN RIVER Cosumnes River at Michigan Bar Mokelumne River North Fork near West Point (5) Total Inflow to Pardee Reservoir Stanislaus River Middle Fork below Beardsley Dam (3)	128	363					<u> </u>	,221
Cosumnes River at Michigan Bar Mokelumne River North Fork near West Point (5) Total Inflow to Pardee Reservoir Stanislaus River Middle Fork below Beardsley Dam (3)			8	60	47%	35	-	
Mokelumne River North Fork near West Point (5) Total Inflow to Pardee Reservoir Stanislaus River Middle Fork below Beardsley Dam (3)			8	60	47%	35	-	
North Fork near West Point (5) Total Inflow to Pardee Reservoir Stanislaus River Middle Fork below Beardsley Dam (3)	437	200						95
Total Inflow to Pardee Reservoir Stanislaus River Middle Fork below Beardsley Dam (3)	437		4					
Stanislaus River Middle Fork below Beardsley Dam (3)	AFO	829	104	370	85%	005		40-
Middle Fork below Beardsley Dam (3)	459	1,065	102	410	89%	365	-	480
	334	702	64	300	90%			
North Fork Inflow to McKays Point Dam (3)	224	503	34	200	90% 89%			
Total Inflow to New Melones Reservoir	699	1,710	116	640	92%	530	_	740
Tuolumne River		, =	.	- • •	/*			
Cherry Creek & Eleanor Creek near Hetch Hetchy (3)	322	727	97	310	96%			
Tuolumme River near Hetch Hetchy (3)	606	1,392	153	610	101%			
Total Inflow to New Don Pedro Reservoir	1,184	2,682	301	1,200	101%	1,090	- 1,	,350
Merced River			•					
Merced River at Pohono Bridge (3)	362	888	80	380	105%			
Total Inflow to Lake McClure	611	1,587	123	650	106%	590	- '	730
San Joaquin River								
San Joaquin River at Mammoth Pool (6)	1,014	2,279	235	1,150	113%			
Big Creek below Huntington Lake (6)	95 202	264 511	11 50	110	116%			
South Fork near Florence Lake (6) Total Inflow to Millerton Lake	202 1,212	511 3,355	58 262	230 1,440	114% 119%	1,330	_ 41	57c
	1,616	0,000	202	1,440	113/0	1,000	- 1,	,570
JLARE LAKE								
Kings River	000	F0F		000	40401			
North Fork Kings River near Cliff Camp (3) Total Inflow to Pine Flat Reservoir	239 1,183	565 3,114	50 273	290 1,450	121%	1 240	_ 4 1	571
Kaweah River at Terminus Reservoir	276	3,114 814			123%	1,340		,570
			61	320	116%	290		350
Tule River at Success Reservoir	59	256	2	55	93%	45	-	70
Kern River	A=-		<u>.</u> -					
Kern River near Kernville (3)	373	1,203	83	460	123%			
Total Inflow to Isabella Reservoir	442	1,657	84	550	124%	510	- (630
See inside back cover for definition All 50 year averages are based on years 1946-1995 unless otherwise note				average bas average bas				

4

(6) 45 year average based on years 1936-81

(3) 50 year average based on years 1941-90

MAY 1, 1997 FORECASTS WATER YEAR UNIMPAIRED RUNOFF

Unimpaired Runoff in 1,000 Acre-Feet (1)													
	STORIC		DISTRIBUTION										CASTS
50 Yr Avg (2)	Max of Record	Min of Record	Oct Thru Jan*	Feb *	Mar *	Apr *	May	Jun	Jul	Aug & Sep	Water Year Forecasts	Pct of Avg	80 % Probability Range (1)
856 1,184 3,078 5,896 8,518	1,964 2,353 5,150 10,796 17,180	165 577 1,484 2,479 3,294	4,400 6,210	710 1,030	500 710	460 620	440 500	280 350	220 250	410 440	7,420 10,110	126% 119%	7,110 - 7,830 9,760 - 10,590
780 2,417 219 291 4,526	1,269 4,400 637 562 9,492	366 666 24 32 994	4,380	555	530	495	410	200	115	155	6,840	151%	6,570 - 7,190
564 181 379 2,337	1,056 292 565 4,926	102 30 98 369	2,500	300	265	305	320	140	35	35	3,900	167%	3,790 - 4,070
616 1,070 318 2,674	1,234 2,575 705 6,381	66 144 59 349	3,180	340	295	370	450	190	40	25	4,890	183%	4,770 - 5,060
378	1,253	20	610	73	31	25	25	8	2	1	775	205%	740 - 820
626 736	1,009 1,800	197 129	620	80	85	120	180	100	10	5	1,200	163%	1,150 - 1,280
471	929	88											
1,131	2,952	155	980	95	130	180	260	160	40	15	1,860	164%	1,740 - 1,960
461 770 1,857	1,147 1,661 4,430	123 258 383	1,500	165	235	275	450	385	90	30	3,130	169%	3,000 - 3,280
461 952	1,020 2,859	92 150	925	105	115	175	265	170	40	15	1,810	190%	1,740 - 1,900
1,337 112 248 1,753	2,964 298 653 4,642	308 14 71 362	1,065	180	220	300	490	480	170	75	2,980	170%	2,860 - 3,130
284 1,647 431 135	607 4,294 1,402 615	58 383 92 16	815 335 226	145 70 46	190 65 31	310 75 21	500 120 20	480 95 11	160 30 3	70 10 2	2,670 800 360	162% 186% 267%	2,550 - 2,820 760 - 840 340 - 380
558 694	1,577 2,309	163 175	365	95	115	140	190	150	70	45	1,170	.169%	1,120 - 1,260

^{*} Indicates observed runoff

FEBRUARY 1, 1997 FORECASTS APRIL-JULY UNIMPAIRED RUNOFF

	Unir	mpaired Ru	noff in 1,0	00 Acre-Fee	et (1)
HYDROLOGIC REGION	Unimpaired Runoff in 1,000 Acre-Feet HISTORICAL FORECA 50 Yr Max Min of Record Record Forecasts (2) Record Record Record Forecasts 642 1,593 80 560 200 N/A N/A 170 510 655 320 N/A feet) (3) 1.5 3.8 0.2 2.7 54 135 12 90 183 407 43 320 143 330 35 250 61 209 7 140	CASTS			
and Watershed	Avg	of	of		Pct of Avg
NORTH COAST			-		
Trinity River					
Total Inflow to Lewiston Lake	642	1.593	80	560	879
Scott River		.,			· ,
Near Fort Jones	200	N/A	N/A	170	859
Klamath River				•	
Total inflow to Upper Klamath Lake (3,4)	510	655	320	N/A	N/
Truckee River Lake Tahoe to Farad accretions Lake Tahoe Rise (assuming gates closed, in feet) (3)					1829 1809
Carson River					
West Fork at Woodfords East Fork near Gardnerville					167%
	183	407	43	320	175%
Walker River West Fork near Coleville	140	000	or.	050	4750
East Fork near Bridgeport					175% 230%
SOUTH LAHONTAN			•		
Owens River					
Total tributary flow to Owens River (3,5)	233	579	96	386	166%

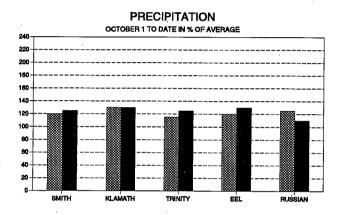
⁽¹⁾ See inside back cover for definition

⁽²⁾ All 50 year averages are based on years 1946-1995 unless otherwise noted
(3) 50 year average based on years 1941-1990
(4) Forecast by U.S. Natural Resources Conservation Service, Portland Oregon, for May through September.
(5) Forecast by Department of Water and Power, City of Los Angeles

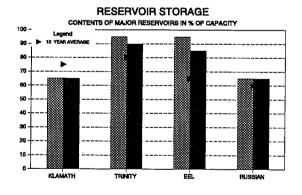
SNOWPACK ACCUMULATION WATER CONTENT IN % OF APRIL 1 AVERAGE 220 200 180 180 140 120 100 80 60 AVERAGE 40 20 MINIMUM 0

NORTH COAST REGION

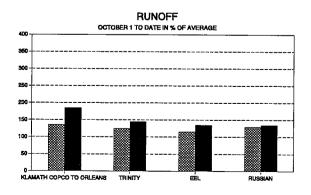
8 snow courses indicate an area wide snow water equivalent of 7.2 inches. This is 20 percent of the seasonal (April 1) average and about 25 percent of the May 1 average.. Last year at this time the pack was holding 17.7 inches of water.



PRECIPITATION - Seasonal precipitation (October 1 through the end of last month) on this area was 125 percent of normal. Precipitation last month was about 100 percent of the monthly average. Seasonal precipitation at this time last year stood at 125 percent of normal.

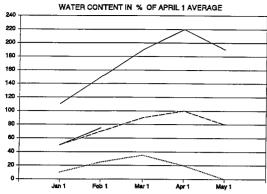


RESERVOIR STORAGE - First of the month storage in 7 reservoirs was 2.7 million acre-feet which is 105 percent of average. About 85 percent of available capacity was being used. Storage in these reservoirs at this time last year was 110 percent of average.



RUNOFF - Seasonal runoff of streams draining the area totaled 17 million acre-feet which is 155 percent of average for this period. Last year, runoff for the same period was 125 percent of average.

SNOWPACK ACCUMULATION

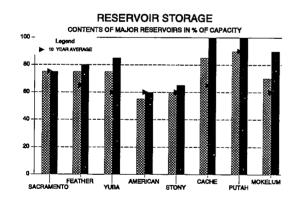


SACRAMENTO RIVER REGION

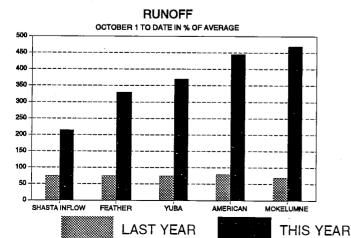
SNOWPACK - First of the month measurements made at 74 snow courses indicate an area wide snow water equivalent of 23.1 inches. This is 115 percent of the February 1 average and 75 percent of the seasonal (April 1) average. Last year at this time the pack was holding 17.6 inches of water.

PRECIPITATION OCTOBER 1 TO DATE IN % OF AVERAGE 250 250 150 100 50 UPPER SACRAMENTO FEATHER YUBA AMERICAN MOKELUMNE

PRECIPITATION - Seasonal precipitation (October 1 through the end of last month) on this area was 195 percent of normal. Precipitation last month was about 190 percent of the monthly average. Seasonal precipitation at this time last year stood at 100 percent of normal.



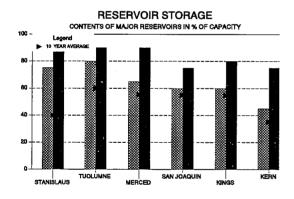
RESERVOIR STORAGE - First of the month storage in 7 reservoirs was 12.9 million acre-feet which is 120 percent of average. About 80 percent of available capacity was being used. Storage in these reservoirs at this time last year was 115 percent of average.

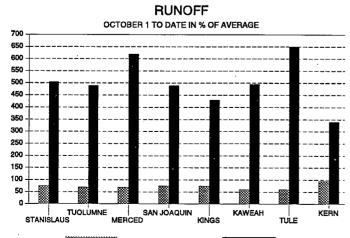


RUNOFF - Seasonal runoff of streams draining the area totaled 16.3 million acre-feet which is 280 percent of average for this period. Last year, runoff for the same period was 75 percent of average.

The Sacramento River Region 40-30-30 Water Supply Index is forecasted to be 13.3 million acre-feet assuming median meteorological conditions for the remainder of the year. This classifies the year as "wet" in the Sacramento-San Joaquin Delta according to the State Water Resources Control Board.

PRECIPITATION OCTOBER 1 TO DATE IN % OF AVERAGE 250 250 150 150 100 50 TUOLUMNE SAN JOAQUIN KINGS KAWEAH TULE





SAN JOAQUIN RIVER AND TULARE LAKE REGIONS

SNOWPACK - First of the month measurements made at 62 San Joaquin Region snow courses indicate an area wide snow water equivalent of 40.0 inches. This is 200 percent of the February 1 average and 125 percent of the seasonal (April 1) average. Last year at this time the pack was holding 17.9 inches of water 95 percent of average.

At the same time, 42 Tulare Lake Region snow courses indicated a basin-wide snow water equivalent of 26.8 inches which is 205 percent of the average for February 1 and 130 percent of the seasonal average. Last year at this time, the Basin was holding 11.3 inches of water, 80 percent of average.

PRECIPITATION - Seasonal precipitation (October 1 through January 31) on the San Joaquin River Region was 235 percent of normal. Precipitation last month was about 245 percent of the monthly average. Seasonal precipitation at this time last year stood at 90 percent of normal.

Seasonal precipitation on the Tulare Lake Region was 240 percent of normal. Precipitation last month was 295 percent of the monthly average. Seasonal precipitation at this time last year stood at 85 percent of normal.

RESERVOIR STORAGE - First of the month storage in 33 San Joaquin River Region reservoirs was 10 million acrefeet which is 155 percent of average and about 90 percent of available capacity. Storage in these reservoirs at this time last year was 135 percent of average.

First of the month storage in 6 Tulare Lake Region reservoirs was 1.6 million acre-feet which is 220 percent of average. About 80 percent of available capacity was being used. Storage in these reservoirs at this time last year was 140 percent of average.

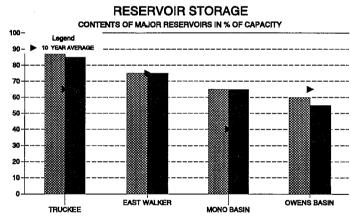
RUNOFF - Seasonal runoff of streams draining the area totaled 5.7 million acre-feet which is 510 percent of average for this period. Last year, runoff for the same period was 70 percent of average.

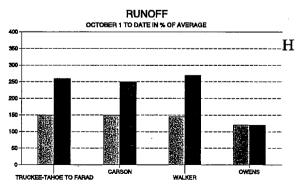
Stream runoff draining into the Tulare Lake Basin totaled 1.9 million acre-feet which is 430 percent of average for this period. Last year, runoff for this same period was 80 percent of average.

The San Joaquin River Region 60-20-20 Water Supply Index is forecasted to be 5.9 million acre-feet which classifies the year as "wet".

SNOWPACK ACCUMULATION WATER CONTENT IN % OF APRIL 1 AVERAGE MAXIMUM MAXIMUM AVERAGE MINIMUM MINIMUM APRIL Belt Mart April May 1 0

PRECIPITATION OCTOBER 1 TO DATE IN % OF AVERAGE 240 220 200 180 160 140 120 100 80 60 40 MOJAVE DESER MONO/OWENS CARSON/WALKER TAHOE-TRUCKEE





NORTH AND SOUTH LAHONTAN REGIONS

SNOWPACK - First of the month measurements made at 9 North Lahontan snow courses indicate an area wide snow water equivalent of 25.4 inches. This is 75 percent of the seasonal (April 1) average and 95 percent of the May 1 average. Last year at this time the pack was holding 33.5 inches of water.

At the same time, 7 South Lahontan snow courses indicated a basin-wide snow water equivalent of 20 inches which is 80 percent of the seasonal average and 100 percent for this date. Last year at this time, the pack was holding 24.0 inches of water.

PRECIPITATION - Seasonal precipitation (October 1 through the end of last month) on the North Lahontan Region was 170 percent of normal. Precipitation last month was about 65 percent of the monthly average. Seasonal precipitation at this time last year stood at 145 percent of normal.

Seasonal precipitation on the South Lahontan Region was 65 percent of normal. Precipitation last month was 5 percent of the monthly average. Seasonal precipitation at this time last year stood at 80 percent of normal.

RESERVOIR STORAGE - First of the month storage in 5 North Lahontan Region reservoirs was 919 thousand acrefeet which is 140 percent of average. About 85 percent of available capacity was being used. Storage in these reservoirs at this time last year was 145 percent of average. Lake Tahoe was 5.2 feet above its natural rim on May 1. First of the month storage in 8 South Lahontan Region reservoirs was 240 thousand acre-feet which is 90 percent of average. About 60 percent of available capacity was being used. Storage in these reservoirs at this time last year was 90 percent of average.

RUNOFF - Seasonal runoff of streams draining the North Lahontan area totaled 1.1 million acre-feet which is 260 percent of average for this period. Last year, runoff for the same period was 150 percent of average.

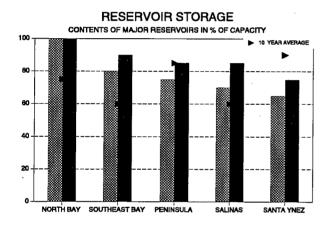
Seasonal runoff of the Owens River in the South Lahontan Region totaled 98 thousand acre-feet which is 120 percent of average for this period. Last year, runoff for this same period was 120 percent of average.

SAN FRANCISCO BAY AND CENTRAL COAST REGIONS

PRECIPITATION
OCTOBER 1 TO DATE IN % OF AVERAGE

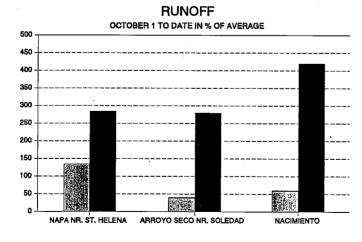
PRECIPITATION - Seasonal precipitation (October 1 through the end of last month) on the San Francisco Bay area was 200 percent of normal. Precipitation last month was about 190 percent of the monthly average. Seasonal precipitation at this time last year stood at 135 percent of normal.

Seasonal precipitation on the Central Coast area was 205 percent of normal. Precipitation last month was 185 percent of the monthly average. Seasonal precipitation at this time last year stood at 75 percent of normal.



RESERVOIR STORAGE - First of the month storage in 18 major Bay area reservoirs was 629 thousand acre-feet which is 140 percent of average. About 90 percent of available capacity was being used. Storage in these reservoirs at this time last year was 130 percent of average.

First of the month storage in 6 major Central Coast reservoirs was 801 thousand acre-feet which is 140 percent of average. About 85 percent of available capacity was being used. Storage in these reservoirs at this time last year was 115 percent of average.



RUNOFF - Seasonal runoff of the Napa River in the San Francisco Bay area totaled 95 thousand acre-feet which is 280 percent of average for this period. Last year, runoff for the same period was 130 percent of average.

Seasonal runoff of selected Central Coast streams totaled 484 thousand acre-feet, which is 370 percent of average for this period. Last year, runoff for this same period was 55 percent of average.

SOUTH COAST AND COLORADO RIVER AREAS

<u>PRECIPITATION</u> - October through April (seasonal) precipitation on the South Coast area was 85 percent of normal. April precipitation was 5 percent of the monthly average. Seasonal precipitation at this time last year was 75 percent of normal.

Seasonal precipitation on the Colorado Desert area was 60 percent of normal. Precipitation in April was 185 percent of average. Seasonal precipitation at this time last year stood at 20 percent of average.

<u>RESERVOIR STORAGE</u> - May 1 storage in 29 major South Coast area reservoirs was 1.5 million acre-feet or 115 percent of average. About 80 percent of available capacity was being used. Storage in these reservoirs at this time last year was 125 percent of average.

On May 1 combined storage in Lakes Powell, Mead, Mohave and Havasu was about 44 million acre-feet or 120 percent of average. About 80 percent of available capacity was in use. Last year at this time, these reservoirs were storing 120 percent of average.

<u>RUNOFF</u> - Seasonal runoff from selected South Coast streams totaled 44 thousand acre-feet which is 80 percent of average. Seasonal runoff from these streams last year was 90 percent of average.

<u>COLORADO RIVER</u> - The May 1 snowpack in the Upper Colorado River basin according to U.S. Natural Resources Conservation Service reports was 140 percent of average, highest in the Green drainage at 155 percent and lowest in the Roaring Fork drainage at 105 percent.

The April through July inflow to Lake Powell is forecast to be 12 million acre-feet, which is 155 percent of average.

CENTRAL VALLEY PROJECT

Based on May 1 conditions, Bureau of Reclamation April-July forecasts for runoff into CVP reservoirs are: Trinity--71% of average, Shasta--88% of average, American--80% of average, Stanislaus--83% of average, San Joaquin above Friant--121% of average. As of April 30, 1997 CVP storage was 9.7 million acre-feet which is a decrease of 0.8 million acre-feet compared to one year ago, and is approximately 112% of normal for that date.

In response to the continuing dry conditions experienced since late January, the Bureau of Reclamation announced updated water allocations for the CVP on April 17, 1997. Agricultural contractors both north and south of the Delta were reduced from 100% to 90% of their contract supplies; urban contractors received 90% to 100% of contractual supply. Wildlife refuges allocations were held at previously scheduled amounts, up to 100% of level II supplies. Sacramento River water rights settlement contractors and San Joaquin Exchange contractors remain at 100% supplies

Friant Division allocations are currently at 100% Class I, and about 30% for Class II for the remainder of the contract year, with the availability of Class II contingent on the forecasted inflows to Millerton. Stanislaus River contractors received a special allocation of 50,000 acre-feet, which was 100% of their request.

STATE WATER PROJECT

The extraordinarily dry February through April this year makes it likely that Lake Oroville will not fill this spring. Approval of water deliveries to SWP water supply contractors remains at 100 percent of each contractor's "Table A" entitlement or 100 percent of their request for 1997, whichever is less.

MAJOR WATER DISTRIBUTION PROJECTS RESERVOIR STORAGE

(AVERAGES BASED ON PERIOD RECORD)

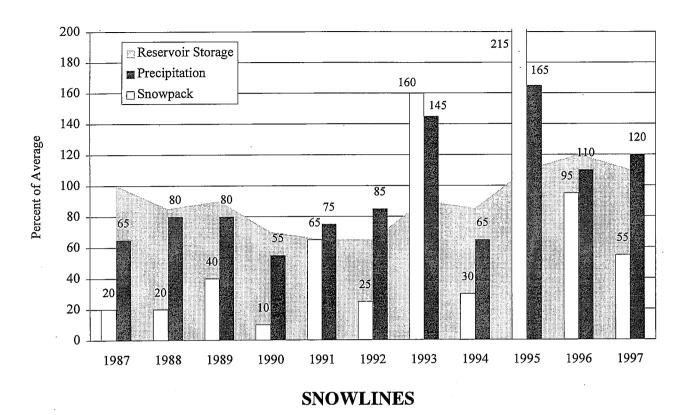
RESERVOIR	CAPACITY 1,000 AF	AVERAGE STORAGE 1,000 AF	1996 1,000 AF	1997	AT END OF PERCENT AVERAGE	PERCENT					
STATE WATER PROJECT											
Lake Oroville	3,538	2,961	3,243	3,222	109%	91%					
San Luis Reservoir (SWP)	1,062	995	972	. 945	95%	89%					
Lake Del Valle	77	39	40	39	102%	51%					
Lake Silverwood	73	67	39	57	85%	78%					
Pyramid Lake	171	164	167	163	100%	95%					
Castaic Lake	324	282	310	313	. 111%	97%					
Perris Lake	132	115	124	112	98%	86%					
CENTRAL VALLEY PROJE	ECT										
Clair Engle Lake	2,448	2,080	2,295	2,168	104%	89%					
Lake Shasta	4,552	4,096	4,313	3,937	96%	86%					
Whiskeytown Lake	241	231	238	238	103%	99%					
Folsom Lake	977	739	782	553	75%	57%					
New Melones Reservoir	2,420	1,549	2,040	1,994	129%	82%					
Millerton Lake	520	316	450	301	95%	58%					
San Luis Reservoir (CVP)	971	872	914	834	96%	86%					
COLORADO RIVER PROJ	ECT		•								
Lake Mead	26,159	19,574	21,882	22,917	117%	88%					
Lake Powell	25,002	15,098	20,186	19,108	127%	76%					
Lake Mohave	1,810	1,634	1,707	1,714	105%	95%					
Lake Havasu	619	579	581	580	100%	94%					
EAST BAY MUNICIPAL UT	TILITY DISTRICT	<u>r</u>									
Pardee Reservoir	198	180	201	177	98%	89%					
Camanche Reservoir	417	268	247	255	95%	61%					
East Bay (4 reservoirs)	151	132	144	151	115%	100%					
CITY AND COUNTY OF SAN FRANCISCO											
Hetch-Hetchy Reservoir	360	151	277	264	175%	73%					
Cherry Lake	268	135	228	192	143%	72%					
Lake Eleanor	26	13	26	25	191%	98%					
South Bay/Peninsula (4 rese	ervoirs) 225	176	222	182	104%	81%					
CITY OF LOS ANGELES (I	D.W.P.)										
Lake Crowley	183	127	122	108	85%	59%					
Grant Lake	48	25	46	47	187%	98%					
Other Aqueduct Storage (6	res.) 95	75	54	54	72%	57%					

TELEMETERED SNOW WATER EQUIVALENTS MAY 1, 1997 (AVERAGES BASED ON PERIOD RECORD)

				INCHES OF WATE	R EQUIVALENT	
BASIN NAME		APRIL 1		PERCENT	24 HRS	1 WEEK
STATION NAME	ELEV	AVERAGE	MAY 1	OF AVERAGE	PREVIOUS	PREVIOUS
TRINITY RIVER						
Peterson Flat	7150'	29.2	0.5	2%	1:7	8.2
Red Rock Mountain	6700'	39.6	11.8	30%	12.4	16.3
Bonanza King	6450'	40.5	0.0	0%	0.0	3.3
Shimmy Lake	6200'	40.3	_		_	
Middle Boulder 3	6200'	28.3	0.0	0%	0.0	0.0
Highland Lakes	6030'	29.9	0.0	0%	0.0	0.0
Scott Mountain	5900'	16.0	0.0	0%	0.0	0.0
Mumbo Basin	5700'	22.4	0.0	0%	0.0	0.0
Big Flat SACRAMENTO RIVER	5100'	15.8	0.0	0%	0.0	0.0
Cedar Pass	7100'	18.1	10.2	56%	10.2	13.3
Blacks Mountain	7100'	12.7	0.0	0%	0.0	2.0
Sand Flat	6750'	42.4	16.3	39%	17.1	20.9
Medicine Lake	6700'	32.6	8.0	25%	8.3	10.7
Adin Mountain	6350'	13.6	0.0	0%	0.0	0.0
Snow Mountain	5950'	27.0	13.4	50%	13.4	13.6
Slate Creek .	5600'	29.0	0.0	0%	0.0	0.0
Stouts Meadow	5400'	36.0	0.0	0%	0.0	0.0
FEATHER RIVER						***
Kettle Rock	7300'	25.5	0.0	0%	0.0	0.2
Grizzly Ridge	6900'	29.7	8.6	29%	9.5	15.6
Pilot Peak (DWR)	6800'	52.6	0.0	0%	0.0	0.5
Gold Lake	6750'	36.5	28.1	77%	28.2	31.2
Humbug	6500'	28.0	6.0	21%	6.6	11.8
Rattlesnake	6100'	14.0	0.0	0%	. 0.0	0.0
Bucks Lake	5750'	44.7	0.0	0%	0.0	3.8
Four Trees	5150'	20.0	0.0	0%	0.0	0.0
EEL RIVER	£1:001					
Noel Spring Plaskett Meadows	5100' 6000'	_	0.0		0.0	0.0
YÜBA & AMERICAN RIVERS	0000		0.0		0.0	0.0
Lake Lois	8800'	39.5				
Schneiders	8750'	34.5	43.0	125%	42.9	45.6
Caples Lake (DWR)	7800'	30.9	19.2	62%	42.9 19.6	45.6 23.5
Alpha	7600'	35.9	12.0	33%	12.1	18.0
Beta	7600'	35.9	15.0	42%	15.2	20.4
Silver Lake (DWR)	7100'	22.7	7.7	34%	8.2	13.1
Central Sierra Snow Lab	6950'	33.6	14.9	44%	15.0	21.8
Huysink	6600'	42.6	20.1	47%	20.5	23.4
Van Vleck	6700'	35.9	23.5	65%	24.0	28.3
Robbs Saddle	5900'	21.4	_			20.5
Greek Store	5600'	21.0	0.0	0%	0.0	0.0
Blue Canyon	5280'	9.0	0.0	0%	0.0	0.0
Robbs Powerhouse	5150'	5.2	0.0	0%	0.0	0.0
MOKELUMNE & STANISLAUS RIV						
Deadman Creek	9250'	37.2	30.0	81%	30.2	32.5
Highland Meadow	8800'	47.9	47.5	99%	47.8	52.5
Gianelli Meadow	8350'	55.5	43.9	79%	44.1	47.5
Lower Relief Valley	8100'	41.2	30.5	74%	30.5	38.3
Blue Lakes Mud Lake	8000'	33.1	26.7	81%	26.8	28.5
Stanislaus Meadow	7900' 7750'	44.9	50.3	112%	50.7	55.3
Bloods Creek	7730 7200'	47.5 35.5	37.0	78%	37.7	42.7
Black Springs	6500°		17.4	49%	18.2	24.6
TUOLUMNE & MERCED RIVERS	0300	32.0	3.4	10%	4.1	9.5
Dana Meadows	9800'	27.7	20.1	1000	20.4	24.0
Slide Canyon	9200'	41.1	30.1	109%	30.1	34.0
Snow Flat	8700°	41.1 44.1	_		****	_
Tuolumne Meadows	8600'	22.6	— 14.1	— 62%	15.0	10.5
Horse Meadow	8400'	48.6	45.1		15.0	18.5
Ostrander Lake	8200'	34.8	24.8	93% 71%	45.1 26.1	50.3
Paradise Meadow	7650°	41.3	24.0	11%	26.1	32.2
Gin Flat	7050°	34.2	8.5°	25%	9.2	14.6
Lower Kibbie Ridge	6600,	27.4	0.0	23% 0%	9.2 0.0	14.6
··		₩/÷T	0.0	070	0.0	0.0

Snow Water Equiv	alen	ts (i	nches)	F	'ebrua	arv 1.	1997		
Basin Name		Coop		Αŗ	r 1	_	Percent	24 Hrs	1 Week
Station Name			y Elev		vg	_	-	Ago	Ago
SAN JOAQUIN RIVER									
Volcanic Knob	VLC	SCE	10100	30	.1	30.1	r 100%	30.1	27.5
Agnew Pass		SCE	9450		.3				
Kaiser Point		USBR USBR			.8 .8			42.0e	38.4
Green Mountain Tamarack Summit		. USBR . USBR			.5	28.9		28.9	25.0
Chilkoot Meadow		MINA			.0	29.3		29.3	24.2
Huntington Lake (usb					.1				
Graveyard Meadow		USBR			.8	28.7		28.7	25.2
Poison Ridge KINGS RIVER	PSR	USBR	6900	28	. 9.	24.5	85%	24.5	
Bishop Pass	BSH	SEQU	11200	34	.0	37.4	110%	36.7	33.5
Charlotte Lake		DWR	10400	27	.5	40.3	147%	40.3	36.2
State Lakes		DWR	10400	29		63.9	220%	63.7	56.2
Mitchell Meadow		DWR	10375 10300	32 34		51.7 42.2	157% 123%	51.5 43.5	44.7 36.3
Blackcap Basin Upper Burnt Corral		PG&E		34		49.0		49.0	44.4
West Woodchuck Meado			9100	32		49.3			42.9
Big Meadows (dwr)		KING		25		21.8	84%	22.1	19.8
KAWEAH & TULE RIVERS			E000		•	04 5	1000	01 4	46.5
Quaking Aspen Giant Forest (coe)		TULE COE	7200 6400	21 10		21.5 17.2	102% 172%	$21.4 \\ 17.4$	16.7 15.9
KERN RIVER	GIVE	COE	0400	10	. 0	17.2	1/2%	11.4	13.9
Upper Tyndall Creek	UTY	COE	11500	27	.7	39.6	143%	39.7	34.3
Crabtree Meadow		DWR	10700	19		20.5	104%	20.5	17.2
Chagoopa Plateau		DWR	10300	21		30.5	140%	30.5	25.3
Pascoes Tunnel Guard Station		DWR	9150 8950	24 15		42.6 19.9	171% 128%	42.3 20.6	36.2 18.0
Wet Meadows		COE	8900	30		32.9		32.9	28.4
Casa Vieja Meadows		CANN		20		18.3		18.3	13.7
Beach Meadows	BCH	CANN	7650	11	.0				
SURPRISE VALLEY AREA	D.C.C	\TD 6.6	7050	00	•	20.0	000	00.0	20 1
Dismal Swamp TRUCKEE RIVER	DSS	NRCS	7050	29	.2	28.9	99%	28.9	29.1
Mount Rose Ski Area	MSK	DEPT	8850	38	.5	60.1	156%	60.1	57.5
Independence Lake (se				41		50.8	123%	50.7	47.8
Big Meadows (scs)		NRCS		25		28.2	110%	28.1	25.7
Independence Camp Independence Creek		NRCS NRCS		21 12		$14.6 \\ 14.1$	67% 11 1 %	$14.8 \\ 14.1$	$14.4 \\ 10.6$
LAKE TAHOE BASIN	TIATA	IMICD	0300	12	• 7 .	14.1	111.9	14.1	10.0
Heavenly Valley	HVN	NRCS	8800	28	.1	32.2	115%	32.1	29.9
Hagans Meadow		NRCS		16		20.9	127%	20.8	20.3
Marlette Lake		NRCS		21		27.5 52.7	130%	27.7	27.8
Echo Peak 5 Rubicon Peak 2		NRCS NWS	7800 7500	39 29		29.0	133% 100%	52.6 28.9	49.8 26.5
Ward Creek 3		NRCS	6750	39		36.3	92%	36.3	32.7
Fallen Leaf Lake	FLL	NRCS	6300	7	. 0	6.7	96%	6.6	5.8
CARSON RIVER			07.00	2.0	•	F-4 0	4240		
Ebbetts Pass Poison Flat		NRCS NRCS	8700 7900	38 16		51.9 21.5	134% 133%	51.9 21.6	47.9 20.6
WALKER RIVER	FISIN	IVICO	1300		• 4	21.5	1000	21.0	20.0
Virginia Lakes	VRG	DWR	9200	20	. 3	26.9	133%	27.0	27.1
Lobdell Lake		NRCS	9200	17		27.3	158%	27.2	25.8
Sonora Pass Bridge		NRCS	8750	26		10 6	1500	10 6	11 [
Leavitt Meadows OWENS RIVER/MONO LAKE	TIAM	NRCS	7200	0	. 0	12.6	158%	12.6	11.5
Gem Pass	GEM	SCE	10750	31	.7	47.7	150%	47.7	42.5
Sawmill			10300	19		23.5	121%	23.5	19.6
Cottonwood Lakes			10200	11		19.6	169%	19.6	17.0
Big Pine Creek South Lake		DWR	9800 9600	17		15.7	88% 1 E 4 &	15.7	13.7
Mammoth Pass (usbr)		LADW USBR		16 42		24.6 49.4	154% 117%	24.5 49.4	21.1 44.9
NORMAL SNOWPACK ACCUMULA									
AREA	JAN	I	FEB	MAI		APRIL	MAY		
NORTH COAST	40		50	85		100	80		
CENTRAL VALLEY NORTH CENTRAL VALLEY SOUTH	45 45		70 55	90 85		100 100	75 80		
LAHONTAN	50		70	90	. =	100	70		
, /	- •			- 0	15		. •		

May 1 Statewide Conditions



MARK YOUR CALENDARS now for the fall California Cooperative Snow Surveys meeting. Barring unforeseen difficulties the 1997 meeting will be held the first week of November at McCloud.

<u>DRYNESS</u> continues for the third month in a row for many regions of California. Los Angeles Civic Center recorded no precipitation for March and April. The total precipitation of 1.12 inches in downtown Sacramento for February through April 1997 is the driest in 148 years of records for those three months. Records began in 1850 for that period. The next in line for February through April dryness was 1964 with 1.18 inches, 1885 with 1.25, 1875 with 1.35, and 1864 with 1.57.

This extreme dryness for February through April seems to be from Marysville southward in the Central Valley and from the American basin southward in the Sierra. It was wetter in the upper end of the Sacramento Valley with 5.49 inches at the Redding Fire Station for the February through April period; that was only the 13th driest on record at that location.

<u>THE 1998 WESTERN SNOW CONFERENCE</u> returns to a normal schedule and location. Next year's meeting will be held at Snowbird, Utah the third week of April.

SNOWPACK - Snow data is a major index of spring and summer runoff from Sierra Nevada watersheds. April 1 data historically reflects the magnitude of the snowpack at or near the maximum seasonal accumulation. Averages are based on April 1 data for the period 1946-1995 (50 years, except for data sites established after 1941).

PRECIPITATION - Averages are based on April 1 data for the period 1946-1995 (50 years, except for data sites established after 1941).

RUNOFF AND FORECASTS - Runoff data and runoff forecasts are shown as unimpaired values. Unimpaired runoff represents the natural water production of a river basin, unaltered by upstream diversions, storage, or by export or import of water to or from other watersheds. Forecast of runoff assumes median conditions subsequent to the date of forecast.

Runoff probability ranges are statistically derived from historical data. The 80 percent probability range is comprised of the 90 percent exceedence level value and the 10 percent exceedence level value. This means that actual runoff should fall within the stated limits eight times out of ten.

Runoff averages for most streams are based on the period 1946-1995. For more details contact California Cooperative Snow Surveys, P.O. Box 942836, Sacramento, CA 94236-0001, (916) 574-2635 or gridley@water.ca.gov.

INDICES OF WATER AVAILABILITY

The Sacramento River Hydrologic Region 40-30-30 Water Supply Index. The 40-30-30 represent the percentage weight given to the three variables in the formula for the index. The first variable is the forecasted unimpaired runoff from April through July (40 Percent). The second variable is the forecasted unimpaired runoff from October through March (30 Percent). The third variable is the previous year's index with a cap to account for required flood control releases during wet years. The basins used in this computation are those used in the Sacramento River water year unimpaired runoff.

<u>The Sacramento River water year unimpaired runoff</u> is the sum of: Sacramento River above Bend Bridge, Feather River Inflow to Lake Oroville, Yuba River near Smartville and American River Inflow to Folsom Lake.

The San Joaquin River Hydrologic Region 60-20-20 Water Supply Index. In a similar manner, the 60-20-20 represents the percentage weights on April through July runoff, October through March runoff and previous year's index. The San Joaquin River unimpaired runoff is the sum of: Stanislaus River Inflow to New Melones Lake, Tuolumne River Inflow to New Don Pedro Reservoir, Merced River Inflow to Lake McClure and San Joaquin River Inflow to Millerton Lake.

Prior month unimpaired runoff is the sum of the runoff in the eight major rivers used in the two above indices.

The next generation of snow sensor suspended in a tank at Scripps Institution of Oceanography for calibration. This sensor detects naturally occurring high energy particles and determines the snow water content based on the attenuation of particles by the water content.

State of California – The Resources Agency DEPARTMENT OF WATER RESOURCES P.O. Box 942836 Sacramento, CA 94236-0001

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